

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended): An isolated nucleic acid which comprises a nucleotide sequence of a polymorphic region of a Disrupted-in-Schizophrenia 1 (DISC1) allelic variant, wherein the Disrupted-in-Schizophrenia 1 (DISC1) allelic variant has a nucleotide sequence that differs from a reference nucleotide sequence selected from the group consisting of:

- (a) the nucleotide sequence set forth in SEQ ID NO:1;
- (b) a Disrupted-in-Schizophrenia 1 (DISC1) nucleotide sequence contained in the clone RP11-17H4, RP11-9801, RP4-584N17, RP5-865N13 or RP4-730B13; and
- (c) the nucleotide sequence set forth in SEQ ID NO:4.

2. (original): The isolated nucleic acid of claim 1 wherein the polymorphic region is located in a 5' promoter region.

3. (original): The isolated nucleic acid of claim 1 wherein the polymorphic region is located in an intron.

4. (original): The isolated nucleic acid of claim 1 wherein the polymorphic region is located in an exon.

5. (original): The isolated nucleic acid of claim 1 which comprises a nucleotide sequence selected from the group consisting of SEQ ID NOS:33-43 and complementary sequences thereof.

6. (Currently amended): A kit for amplifying or determining the molecular structure of at least a portion of a Disrupted-in-Schizophrenia 1 (DISC1) nucleic acid, which kit comprises:

a probe or primer which hybridizes to a polymorphic region of a Disrupted-in-Schizophrenia 1 (DISC1) nucleic acid; and instructions for use.

7. (original): The kit of claim 6, wherein the DISC1 nucleic acid is from a human DISC1 gene.

8. (Currently amended): The kit of claim 7 wherein the probe or primer hybridizes to a polymorphic region of a DISC1 allelic variant, wherein the DISC1 allelic variant has a nucleotide sequence that differs from a reference nucleotide sequence selected from the group consisting of:

- (a) the nucleotide sequence set forth in SEQ ID NO:1;
- (b) a DISC1 nucleotide sequence contained in the clone RP11-17H4, RP11-9801, RP4-584N17, RP5-865N13 or RP4-730B13;
- (c) the nucleotide sequence set forth in SEQ ID NO:4; and
- (d) complementary sequences thereof.

9. (original): The kit of claim 8 wherein the polymorphic region is located in a 5' promoter region.

10. (original): The kit of claim 8 wherein the polymorphic region is located in a 3' untranslated region.

11. (original): The kit of claim 8 wherein the polymorphic region is located in an intron.

12. (original): The kit of claim 8 wherein the polymorphic region is located in an exon.

13. (original): The kit of claim 8 wherein the polymorphic region comprises a nucleotide sequence selected from the group consisting of SEQ ID NOS:33-43 and complementary sequences thereof.

14. (original): The kit of claim 8 wherein the probe or primer is a single stranded nucleic acid.

15. (original): The kit of claim 8 wherein the probe or primer is labeled.

16. (original): The kit of claim 8 wherein the probe or primer has a nucleotide sequence from about 15 to about 30 nucleotides in length.

17. (original): The kit of claim 16 wherein the probe or primer comprises a nucleotide sequence selected from the group consisting of SEQ ID NOS:33-127 and complementary sequences thereof.

18. (original): A kit according to claim 16 which comprises a first primer and a second primer, wherein the first and second primers are selected from the group consisting of SEQ ID NOS:33-127 and complementary sequences thereof.

19. (Currently amended): A kit for determining whether a subject is at risk of developing a neuropsychiatric disorder, which kit comprises:

a probe or primer which hybridizes to a polymorphic region of a Disrupted-in-Schizophrenia 1 (DISC1) nucleic acid; and instructions for use.

20. (original): The kit of claim 19, wherein the neuropsychiatric disorder is schizophrenia, schizoaffective disorder, bipolar disorder, unipolar affective disorder and adolescent conduct disorder.

21.-43.(withdrawn)

44.-53. (canceled)

54. (currently amended): An isolated nucleic acid which comprises a nucleotide sequence of a polymorphic region of a Disrupted-in-Schizophrenia 1 (DISC1) allelic variant, wherein the Disrupted-in-Schizophrenia 1 (DISC1) allelic variant has a nucleotide sequence that differs from a reference nucleotide sequence selected from the group consisting of:

- (a) the nucleotide sequence set forth in SEQ ID NO:1; and
- (b) a Disrupted-in-Schizophrenia 1 (DISC1) nucleotide sequence contained in the clone RP11-17H4, RP11-9801, RP4-584N17, RP5-865N13 or RP4-730B13.

55. (previously added): The isolated nucleic acid of claim 54 which comprises nucleotide sequence SEQ ID NO:33 and complementary sequences thereof.

56. (withdrawn)

57. (currently amended): The kit of claim 7 wherein the probe or primer hybridizes to a polymorphic region of a DISC1 allelic variant, wherein the DISC1 allelic variant has a nucleotide sequence that differs from a reference nucleotide sequence selected from the group consisting of:

- (a) the nucleotide sequence set forth in SEQ ID NO:1;
- (b) a DISC1 nucleotide sequence contained in the clone RP11-17H4, RP11-9801, RP4-584N17, RP5-865N13 or RP4-730B13; and
- (c) complementary sequences thereof.

58. (previously added): The kit of claim 57 wherein the polymorphic region comprises nucleotide sequence SEQ ID NO:33 and complementary sequences thereof.

59. (withdrawn)

60. (previously added): The kit of claim 57 wherein the probe or primer comprises nucleotide sequence SEQ ID NO: 33 and complementary sequences thereof.

61. (withdrawn)

62. (previously added): A kit according to claim 16 which comprises a first primer which is selected from the group consisting of SEQ ID NOS: 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, and 126 and a second primer which is selected from the group consisting of SEQ ID NOS: 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, and 127.